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TI - TILT ANGLE CONTROLLER FOR ARRAY ANTENNA

AB - PROBLEM TO BE SOLVED: To realize a controller which is capable f easily, quickly, continuously and minutely changing the tile angle of an array antenna and approximately matching the set value with the realized value of the tilt angle over wide frequency bands.

- SOLUTION: Between each of output terminals 31 to 33 of plural rotary type phase shifters 41 to 43 to which the excited power of an antenna is added via a distributor 2 and power feeding lines 81 to 86 which are equal in length with each other, transmission lines 61 to 66 for adjustment of phase shift amount are connected. The rotary type phase shifters 41 to 43 are provide with second exciter with which two orthogonal components of the linear polarized waves generated from a a first exciter excited by input power is coupled, the first and second exciters are relatively rotatable around the axis connecting each center, the phase shift amount is fixed according to this rotational angle and a circuit synthesizing the two-outputs generated by the two orthogonal components of the linear polarized wave coupled with the second exciter is provided. In the frequency which is the middle of a use frequency band, the length of the transmission line 61 is formed shorter by 360 deg. in a phase angle and the length of the transmission line 66 is formed longer by 360 deg. in phase angle than each length of the transmission line 62 and 65 (non-illustrated).

I - H01Q3/26 ;H01Q3/30 ;H01Q3/36